Indiana's Einsteins

INDIANA 2016
COMMUNITIES BUILDING COMMUNITY

The **Indiana Commission for Women (ICW)** was established in 1992 by Executive Order 92-15. In 1996, Senate Enrolled Act 500 instituted the Commission. Indiana became the 27th State in the country to create a Women's Commission. The ICW is symbolic of Indiana's true commitment in improving the quality of life for women and families. The ICW is charged with assessing the needs of Indiana women and their families and with promoting the full participation of Indiana Women in all aspects of society. The ICW provides outreach, support and education to Hoosier women while serving as a liaison between government and private interest groups concerned with services for women. The ICW informs leaders of business, education, government and media of the nature and scope of the problem of sex discrimination with a view to enlist their support in working toward improvement. The commission also promotes the consideration of qualified women for all levels of government and oversees the coordination and assessment of programs in all state agencies as they affect women. The ICW is required to evaluate laws and governmental policies with respect to the needs of women, and to monitor legislation and other legal developments in order to make recommendations to the Indiana General Assembly and the Governor on issues concerning women. As well, the Commission is focusing on ways to enhance the economic status of Indiana women. **http://www.in.gov/icw/**

Hook's Discovery & Learning Center is a catalyst to encourage an interdisciplinary exploration of life sciences - captivating, motivating, and educating people of all ages and backgrounds. We are Indiana's life science education center providing quality experiences that promote science learning for students, educators, and the general public.

Hook's Discovery & Learning Center provides participants with lively demonstrations, experiments, and hands-on life science discovery based on Indiana State Education Standards. Programs are offered through our Outreach Van - the Brain MotorVator, Distance Learning, and on-site visits to the Historical Drugstore and Pharmacy Museum at the Indiana State Fair Grounds.

For more information please visit: www.hooksdlc.org or contact:
Rebecca Holmquist
317-951-2222
rholmquist@hooksdlc.org

Teacher's Resource Center

The Teacher's Resource Center is a "lending library" of K-12 hands-on math and science kits. This FREE resource includes the lesson plan, lab equipment, supplies, worksheet copies, and delivery to your door. All kits are correlated with the Indiana Academic Standards and information and ordering is available online. While available to public, private, home and charter schools, as well as summer camps and youth organizations, our current delivery area is limited to Marion and the contiguous counties. Efforts are underway to make these resources available statewide. For more information go to http://www.cln.iupui.edu and click on "Community Outreach"

Our mission at **CERIAS** is to create an information security resource targeted at the needs of K-12 teachers, administrators, parents and students. This resource will provide support, staff development programs, student workshops, professional collaborations and an online reference. By focusing upon the particular needs of this group, the CERIAS K-12 Outreach Program will promote an increased awareness of information security and provide specific skills and techniques to assist K-12 leaders in their surge to protect their most important asset, their students.
http://www.cerias.purdue.edu/

Purdue University
Pre-Engineering Technology Education
The **Project Lead The Way**[a] Pre-Engineering Program is being offered in over 500 schools this coming year, including school districts in 31 states from Maine to California. Indiana is second only to New York with the number of schools participating in the program. Over 60 Indiana schools are involved with Project Lead The Way. Additionally, Purdue University is a major contributor in the preparation of Project Lead The Way teachers. PLTW has developed a four year sequence of technology education courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college The PLTW technology education curriculum addresses the educational needs of students planning to attend a two-year or four-year college leading to a career in engineering or engineering technology.
In addition to the PLTW high school technology education curriculum, PLTW provides a middle-level technology education program. This exploratory curriculum focuses on design, electronics, automation, and engineering mechanics. The curriculum is hands-on and directly articulates to the high school PLTW course sequence.
http://www.pltw.org/aindex.asp

EPICS is an innovative program at Purdue University that creates partnerships between teams of undergraduate students and local community not-for-profit organizations to solve engineering-based problems in the community. This partnership provides many benefits to the students and the community alike.

http://epics.ecn.purdue.edu/

Information Technology at Purdue (ITaP) provides central computing and telecommunication services for the West Lafayette campus of Purdue University. Headed by Vice President and CIO Jim Bottum, ITaP encompasses ten areas: Architecture and Emerging Technology, Collaborative Research and Engagement, Communications, Computing Services, Enterprise Applications, Instructional Computing Services, Research Computing, Security and Policy, Telecommunications, and Visualization and Perceptualization. These ten areas provide services to Purdue students, faculty and staff.

Students have access to more than 300 computers in labs scattered throughout campus. In the Digital Learning Collaboratory they can check out still cameras, video cameras and digital cameras, plus use equipment to create digital portfolios, render graphics, and create videos. Steve Dunlop is the Project Director.

Further information is available at our website located at http://www.itap.purdue.edu

DNR - Division of Fish & Wildlife
Federal SSport Restoration Program

Go FishIN is an aquatic education program designed to teach young people about Indiana's aquatic resources using fishing as the tool. Through the Go FishIN program educators promote a respect in Indiana's youth for the environment, they teach them about fish and fishing, and they allow them to discover the unique aquatic ecosystems in Indiana. Educators are trained in the Go FishIN program by attending a six-hour workshop. Once trained, they become Crew Captains and are then eligible to use all of the Go FishIN Curriculum, fishing resources and equipment. The program administers a fishing pole and tackle loaner program that all Crew Captains can use.

http://www.in.gov/dnr/fishwild/about/edcenter/gofishin.htm

Project WET believes that informed people are more likely to participate in the decision making process and to make a difference through their actions. Project WET invites educators, resource managers, community leaders and concerned citizens to join Project WET in educating people - about one of the most precious resources on the planet - water.

The goal of Project WET is to facilitate and promote awareness, appreciation, knowledge, stewardship of water resources through the development and dissemination of classroom - ready teaching aids and the establishment of state and internationally sponsored Project WET programs.

Project WET activities are designed to satisfy the goals of educational programs by complementing existing curricula rather than displacing or adding more concepts. Project WET activities provide many opportunities to address curricula objectives and educational standards. These interdisciplinary activities designed for students in grades K-12 are perfect for use in formal and non-formal education settings

http://www.state.in.us/dnr/soilcons/wet/

PEARLS:
Physical Educational Assistance, Resources, and Learning Strategies
The Traveling Physics on the Road has impacted approximately 30,000 K-12 students per year in the last ten years. Our demonstration show lasts up to an hour, and can be tailored to various age groups and to meet school scheduling requirements. The Physics on the Road Demonstrations cover areas of physics which span an entire year's study, teachers can select from nearly twenty different activities appropriate for nearly any time during the school year, or utilize several of the adaptations to sustain the Physics on the Road impact for months. The adaptations vary in complexity, allowing students of all ages to participate. This section also includes a list of materials and suggested sources for their purchase. The show is always a hit with students of all ages and their teachers as it relates the fun and excitement of science.
http://www.physics.purdue.edu/outreach/outreach2.html

Come check out how **Indiana Department of Environmental Management** engineers work to ensure the proper construction and inspection of landfills. **http://www.in.gov/idem/**

Brownsburg Challenger Learning Center, in partnership with community leaders and educators, integrates science, math, and technology to provide a learning experience that incorporates communications, teamwork, responsible decision-making, and critical thinking skills. Our mission is to encourage curiosity, discovery, and the pursuit of lifelong learning.
http://challenger.brownsburg.k12.in.us

Purdue University, along with research team affiliates at Howard and Alabama A&M University, has just been selected by NASA to establish a new NSCORT Center (NASA Specialized Center of Research and Training Center) focusing on 'advanced life support.' This cutting-edge center will support a 5-year, $10 million research program designed specifically to resolve the complex and crucial requirements of sustained human survival within an interplanetary space-based environment. These technical concerns represent a compelling, and highly interdisciplinary, challenge for the creative academic talents of our three participating universities, covering the following four major issues: 1) environmental management [i.e., solid waste, water, and air revitalization plus related resource recovery], 2) food production and safety, 3) systems engineering, and 4) complementary center 'outreach' activities.
http://128.210.160.177/wps/portal/_pagr/109

SEFI is a not-for-profit organization whose purpose is to encourage and assist young people to become scientists and engineers and to practice their professions in Indiana. The membership of the Board of Directors is composed of volunteers from industry, the not-for-profit sector, and academia who are committed to enhancing science education in Indiana. Our mission statement is embodied in deliverable outcomes.

Specifically, the youth of our state are encouraged and assisted through the following activities.

- Financing the Hoosier Science and Engineering Fair
- Providing financial support for Indiana students and teachers while they attend the Intel International Science Fair
- Conducting "how to" science fair workshops for Indiana teachers
- Soliciting scholarships and awards from Indiana colleges and universities for science fair participants
- Connecting science students to Indiana colleges and universities
- Providing Science Fair information/resources to teachers, parents and students in Indiana
- Supporting the regional science fairs in Indiana

http://www.sefi.org/welcome2.htm

Camp Invention™ is a one-week day camp for children entering grades 2-6. This unique and exciting program is hosted by schools throughout the country each summer. Camp Invention provides every child with the opportunity to think the unthinkable, create new possibilities and discover innovative solutions through hands-on learning. This exciting program invites children to let their imaginations run wild through encouraged team work, creative problem solving and inventive thinking.
www.invent.org

MAD SCIENCE OF NORTH CENTRAL INDIANA

Mad Science is the world's leading **FUN** science provider! We spark the imagination and curiosity of children, ages 3-12, by providing them with interactive and engaging activities that help instill a clearer understanding of what science is really about and how it affects the world around them.

Mad Science of North Central Indiana has been serving the greater Indianapolis area since 1996 and has reached over 40,000 kids with our hands-on science workshops, after school programs and enrichment camps as well as our entertaining, science-themed birthday parties, school assemblies, and special events.
http://www.madscience.org/

Destination ImagiNation® is one of the most exciting creative problem solving programs for kids of all ages! It is an international program for students in kindergarten through college that teaches life skills and expands imaginations through team-based creative problem-solving competitions. Call it Creativity 101, describe it as "thinking outside of the box," say it's the things they don't teach you in your regular classes at school. However you describe Destination ImagiNation®, the bottom line is this: It's the most important course in education. The Destination ImagiNation® program helps kids build important, lifelong skills, such as problem solving, teamwork and divergent thinking. Our teams solve two types of Challenges: structural, technical or theatrical oriented Challenges which take several months to solve and also practice improvisational Instant Challenges, which stimulate the team's ability to think quickly and creatively with only minutes to prepare solutions. When tournament time rolls around, each team's score reflects its Central Team Challenge performance plus its response to an **Instant Challenge.**

More Information Contact: Melissa Branham, Affiliate Director
Indiana Creative Problem-Solving Association
11440 Highway 62
Charlestown, IN 47111-9400
(812) 256-8000
mbranhm@wesc.k12.in.us

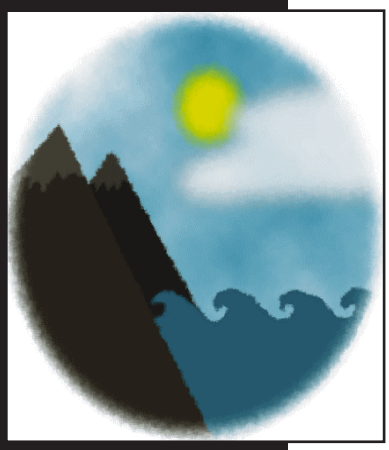
DestinationImagiNation
The most important course in education.

Shared Information Services centers are regionally located in the state of Indiana.
We are lending libraries who loan educational materials, free of charge, to educators and parents throughout the state. You can use SIS to obtain materials for professional development, to borrow resource materials to enrich and accelerate students and we do not charge a fee to use our materials and resources. Any Indiana resident - the services are available for educators, parents & students. Our resources include materials appropriate for preschool through high school, adult, and professional levels. Our holdings cover a wide variety of topics, such as:

- Math, Science, Language Arts, Social Studies, Visual and Performing Arts, & Foreign Language
- Creativity, Thinking Skills, Problem Solving, Independent Study, & Technology
- Differentiation, Learning Styles, Study Groups, Multifaceted Assessment, Student Data, Problem-based Learning, Multiple Intelligences & other Professional Development
- Educator, Administrator, Parent & Student Gifted/Talented Resources
- Interdisciplinary Units, Simulations, Activity Books, Research Briefs, Curricula, Journals, Periodicals & Media

How do I locate materials?

* Search our on-line catalog via our website: **www.bsu.edu/sis**
* Call the toll-free number of one of the SIS centers
  Ball State:800.322.1248 Purdue:800.347.2948 Wilson ESC:800.326.5467



With a mission of promoting environmental research, science education and public service, the **Center for Earth and Environmental Science** is a research center working to solve complex environmental problems. Our programs seek to translate environmental issues and solutions to legislators, environmental professionals, students, and citizens. Research initiatives cross traditional science boundaries and facilitate science-based decision making. Educational programs are discovery based and make science real and relevant. There are Campus Degree Programs and Environmental Education Resources for K-12 Teachers including workshops and activity modules. Our public service programs immerse volunteers in hands-on projects that address current environmental issues and improve natural areas in Central Indiana. CEES also provides service learning opportunities and partnerships with various city and state agencies. Situated in an urban location at the population center of Indiana and at a focal point of environmental studies by government, industry, and consulting, CEES is uniquely capable of making dramatic contributions to environmental science within the State of Indiana, the Midwest, and beyond.

Center for Earth and Environmental Science
Dr. Lenore P. Tedesco, Director
Indiana University-Purdue University Indianapolis
723 West Michigan Street, Room SL118, Indianapolis, IN 46202-5132
(317) 274-7154 Fax (317) 274-7966
E-Mail: cees@iupui.edu Web Site: **www.cees.iupui.edu**

Biotechnology Learning Center – **The Children's Museum of Indianapolis**, with the support of **Dow Agrosciences,** has developed a Biotechnology Learning Center. The center focuses on educating students on the science of plant biotechnology. This new space is dedicated to teaching upper elementary and middle school youth about the history of biotechnology, the science behind it and how our foods and plants will be affected by this growing science. Located on Level 5, the Biotechnology Learning Center in the DOW ScienceWorks Gallery, includes 1500 square feet of lab space suited for school activities and demonstrations. Opportunities for facilitated classes, distance links, teacher workshops and institutes are available for teachers and students to help them gain knowledge and understanding on this difficult and changing field so that they can better understand the role of biotechnology in their lives. Please our web site for more information: http://www.childrensmuseum.org/biotech/
Details: Michele Schilten, School Science Educator, (317) 334-3201; e-mail micheles@childrensmuseum.org; web site www.childrensmuseum.org

The Children's Museum
of Indianapolis

FIRST ROBOTICS COMPETITION

The FIRST Robotics Competition is an exciting, multinational competition that teams professionals and young people to solve an engineering design problem in an intense and competitive way. The program is a life-changing, career-molding experience—and a lot of fun. Colleges, universities, corporations, businesses, and individuals provide scholarships to our participants. Involved engineers experience again many of the reasons they chose engineering as a profession, and the companies they work for contribute to the community while they prepare and create their future workforce. The competition shows students that the technological fields hold many opportunities and that the basic concepts of science, math, engineering, and invention are exciting and interesting.

Table Presenters: Full Metal Jackets
Contact: Ms. Libby Ritchie, Morristown High School, 765-763-1221

FIRST LEGO League

The FIRST LEGO League (FLL), considered the "little league" of the FIRST Robotics Competition, is the result of a partnership between FIRST and the LEGO Company. FLL extends the FIRST concept of inspiring and celebrating science and technology to children aged 9 through 14, using real-world context and hands-on experimentation. With the help of LEGO® MINDSTORMS™ Robotics Invention System™ technology, young participants can build a robot and compete in a friendly, FIRST-style robotics event specially designed for their age group. Using LEGO bricks and other elements such as sensors, motors, and gears, teams gain hands-on experience in engineering and computer programming principles as they construct and program their unique robot inventions.

Table Presenters: Lego Leaders/RCX/Lego Devils
Contact: Mr. Steve Florence, West Lafayette Jr/Sr High School
FlorenceS@wl.k12.in.us

The Junior Science and Humanities Symposium (JSHS) Program is jointly sponsored by the United States Departments of the Army, Navy, and Air Force, in cooperation with leading research universities throughout the nation.
The primary aims of JSHS are to promote research and experimentation in the sciences, engineering, and mathematics at the high school level, to recognize the significance of research in human affairs and the importance of humane and ethical principles in the application of research results, to search out talented youth and their teachers, recognize their accomplishments at symposia, and encourage their continued interest and participation in the sciences, mathematics, and engineering, to expand the horizons of research-oriented students by exposing them to opportunities in the academic, industrial, and governmental communities, and to increase the number of future adults capable of conducting research and development.
http://www.indstate.edu/scied/

Indiana State University Center for Science Education General information about the programs and courses offered through the university and the university's science departments will be available, along with information on our Summer Honors program.
http://www.indstate.edu/scied/

Hoosier Association of Science Teachers, Inc.

The purpose of HASTI is the advancement, stimulation, extension, improvement, and coordination of science education in all fields of science at all educational levels. Sample publications and membership information will be available.
http://www.hasti.org/

Many thanks to our sponsors. Because of them,

Indiana's Einsteins happened here!

PURDUE UNIVERSITY

It will happen here
Discovery Park

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The Indiana Women's Prison
For creating testing stations, flags, cookies and goodie bags.

Indiana State Poultry Association

Indiana University School of informatics

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Indiana 2016 brings Hoosiers together to build their future.

Indiana 2016 strengthens Indiana by educating about, inspiring and recognizing the active involvement of Hoosiers in their communities.

Just over 200 years ago - July 4, 1800 - the Indiana Territory was carved out of what was then America's new frontier. Those early Hoosiers shared a commitment to the vision of statehood and just 16 short years later Indiana became a reality. Now, as we sit at the dawn of a new millennium, what can we Hoosiers set our minds to and accomplish in the same period of time. What do we want Indiana to be on its 200th birthday in 2016?

That is the charge that has been given to the Indiana 2016 Task Force. Created by Governor Frank O'Bannon and chaired by First Lady Judy O'Bannon, the 25-member Task Force is encouraging individuals, organizations and communities to set their sights on their vision for the future and how to make it a reality.

In 1916, Hoosiers marking the state's centennial set a high standard for us to follow. At that time, Indiana's state park system was started. Truly, a noteworthy legacy of what Hoosiers felt was important for the future and for their children and grandchildren.

As we move closer to marking the bicentennial, the Indiana 2016 Task Force will continue its work to strengthen Hoosier communities. The Task Force will place a special emphasis on those initiatives in the areas of education, health and human services, arts and culture, technology and community development.

Indiana 2016 encourages Hoosiers to build upon the foundation laid by our forefathers and set their sights on the future by asking four questions:

- What is our past?
- Who are we today?
- What do we want to be in the future?
- How do we make that vision a reality?

What Can You Do?

- Sign up your community or organization to be an Indiana 2016 Community.
- Get involved in the statewide network of communities sharing ideas and opportunities.
- Consider how you can create opportunities for people in your community to be more involved in local initiatives and programs.
- Look for programs or initiatives in your community that are already working to strengthen your community for the future, and let us know about them and make them part of Indiana 2016.
- Develop resources and partnerships to help further your community's or organization's goals.

www.indiana2016.org